

**BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU**



MANPOWER STANDARD 23B2SO

1 DECEMBER 2004

Manpower Standard

SURVIVAL EQUIPMENT EC-130E (RIVET RIDER)

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the process oriented description (POD) for varying levels of workload in the Survival Equipment EC-130E (Rivet Rider). This ANGMS applies to the Survival Equipment EC-130E, Rivet Rider mission only, at the 193rd SOW, PA. This standard applies to peacetime operations only. The Air National Guard (ANG) is the authority for the approval and publication of ANG Manpower Standards. Air Force (AF) and ANG directives contain policy and procedural guidance for the operation of the Rivet Rider function. This standard was developed in accordance with AF Instruction (AFI) 38-201, *Determining Manpower Requirements*, and AF Manual (AFMAN) 38-208, Volume 1, *Air Force Management Engineering Program (MEP) - Processes*, and AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*. Send comments and suggested improvements on AF IMT 847, *Recommendation for Change of Publication*, through channels, to ANG, Management Engineering Branch (ANG/XPME/Operating Location TN [OLTN]), 106 Briscoe Drive, McGhee Tyson ANG Base TN 37777-6283.

1. STANDARD DATA:

1.1. Approval Date. 1 December 2004.

1.2. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).

1.3. Standard Man-hour Equation. $Y = 55.77 + 23.43X$.

1.4. Workload Factor:

1.4.1. Title. A Primary Aircraft Inventory.

1.4.2. Definition. The number of primary aircraft inventory.

1.4.3. Source. USAF Program Document (PD), Volume II maintained by ANG/XPPI.

1.4.4. Points of Contact:

1.4.4.1. Functional: Lt Col Robert Hoback, ANG/LGY.

1.4.4.2. Manpower: Mr. Steve Griffith, Chief, ANG/XPME, Management Engineering Branch.

2. APPLICATION INSTRUCTIONS:

2.1. Step 1. Man-hour Equation. Apply the man-hour equation in paragraph 1.3., to determine required man-hours.

2.2. Step 2. Man-hour Availability Factor (MAF). Divide the resulting man-hours by the appropriate MAF times the overload factor.

2.3. Step 3. Upper and Lower Extrapolation Limits:

2.3.1. $Y_U = 203.27$.

2.3.2. $Y_L = 121.97$.

2.4. Step 4. Air Force Specialty Codes (AFSC) Requirement. Use the Manpower Table attachment 3 to determine required AFSCs.

3. STATEMENT OF CONDITIONS: The conditions listed below had no affect on the development of this standard. Minimum response rates, minimum manpower levels, standardized crew complements, safety considerations, aircraft turn-around time, length of waiting periods, levels of backlog and hours of operation.

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Director, Air National Guard

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 38-201, *Determining Manpower Requirements*

AFMAN) 38-208, Volume 1, *Air Force Management Engineering Program (MEP)-Processes*

AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*

Abbreviations and Acronyms

AF -- Air Force

AFI -- Air Force Instruction

AFSC -- Air Force Specialty Codes

AGE -- Aerospace Ground Equipment

ANG -- Air National Guard

ANGI -- Air National Guard Instruction

ANGMS -- Air National Guard Manpower Standard

FMB -- Financial Management Board

MEP -- Management Engineering Program

MSDS -- Material Safety Data Sheets

POD -- Process Oriented Description

TCTO -- Time Compliance Technical Order

UTA -- Unit Training Assembly

Terms

Air National Guard Manpower Standard (ANGMS)--A numbered, specialized publication that quantifies manpower requirements for a work center. Also includes approved variances. See AFI 38-201.

Man-hour--A unit of measuring work. It is equivalent to one person working at a normal pace for 60 minutes, two people working at a normal pace for 30 minutes, or a similar combination of people working at a normal pace for a period to time equal to 60 minutes.

Manpower Standard--The basic tool used to determine the minimum level of manpower required to support a function. It is a quantitative expression that represents a work center's man-hour requirements in response to varying levels of workload.

Process Oriented Description--A format that shows work center responsibilities structured for easy measurement of work categories, tasks and subtasks.

Attachment 2

PROCESS ORIENTED DESCRIPTION SURVIVAL EQUIPMENT

Table A2.1. Listing of Functional Process.

TASK NO.	PROCESS
1.	AIRCREW EMERGENCY PARACHUTE MAINTENANCE. Unpacks, inspects, repairs, modifies, performs Time Compliance Technical Order (TCTO), repacks, condemns, and completes documentation.
2.	AIRCREW FLOATATION EQUIPMENT MAINTENANCE. Unpacks, inspects, repairs, modifies, performs TCTO, repacks, condemns, and completes documentation.
2.1.	PERFORMS LIFE PRESERVER MAINTENANCE.
2.2.	PERFORMS LIFE RAFT MAINTENANCE.
2.3.	PERFORMS ANTI-EXPOSURE SUIT MAINTENANCE.
3.	EQUIPMENT CONDEMNATION. Performs condemnation of unserviceable equipment and completes documentation.
4.	FABRIC OR LEATHER PRODUCT MAINTENANCE.
4.1.	PERFORMS FABRIC OR LEATHER WORK. Performs fabric or leather work on non-aerospace and aerospace equipment to include tearing down, measuring, developing pattern, researching stock number, ordering, storing, cutting, and fitting material.
4.2.	MAINTAINS ORGANIZATIONAL FLIGHT CLOTHING. Maintains organizational flight clothing to include repair and sewing of squadron patch, nametag, reflective tape, and zipper.
4.3.	PERFORMS MAINTENANCE OF AIRCREW FLIGHT EQUIPMENT.
5.	TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs TCTO, operational check, and completes documentation.
6.	SPECIAL PLANNING OR SCHEDULING. Performs planning or scheduling associated with preparation for unit training assembly, annual tour, mobility participation, or other special program.
6.1.	PREPARES FOR UNIT TRAINING ASSEMBLY.
6.2.	PREPARES FOR MOBILITY/DEPLOYMENT PARTICIPATION.
7.	TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts

	technical data, changes, and supplements to technical order file. Maintains and inventories file for serviceability.
8.	ASSISTANCE. Assists other maintenance work center in the performance of maintenance related tasking.
9.	MAINTENANCE AUTOMATED SYSTEM. Makes input to Core Automated Maintenance System. Retrieves, analyzes and reconciles data.
10.	HAZARDOUS WASTE PROGRAM MANAGEMENT.
10.1.	PROCESSES HAZARDOUS WASTE. Identifies, labels, contains, and disposes of hazardous waste.
10.2.	MAINTAINS PROTECTIVE EQUIPMENT. Inspects and maintains protective equipment.
11.	FOREIGN OBJECT DAMAGE WALK/INSPECTION. Performs walk around the maintenance complex and runway for debris.
12.	NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE)/SHOP INDUSTRIAL EQUIPMENT. Inspects and repairs non-powered AGE and shop industrial equipment.
13.	GENERAL SHOP SUPPORT. Performs shop support task to include local manufacture item.
14.	BENCH STOCK.
14.1.	MAINTAINS BENCH STOCK. Determines requirement, obtains part from Supply, stores in bin upon receipt, and maintains required documentation.
14.2.	PERFORMS ANNUAL BENCH STOCK REVIEW.
14.3.	MAINTAINS WORK ORDER RESIDUE. Stores and distributes as needed.
15.	SHOP STOCK.
15.1.	MAINTAINS SHOP STOCK. Determines requirement, obtains part from Supply, stores in bin upon receipt, and maintains required documentation.
15.2.	MAINTAINS WORK ORDER RESIDUE. Stores and distributes as needed.
16.	MATERIEL SAFETY DATA SHEETS (MSDS). Updates MSDS file to maintain serviceability.
17.	INDIRECT. Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are: Administers Civilian, Officer, and Enlisted Personnel; Directs Work Center Activity; Provides Administrative Support; Prepares for and Conducts/Attends Meeting; Administers Training; Manages Supplies; Maintains Equipment; and Performs Cleanup.

Attachment 3

MANPOWER TABLE

Table A3.1. Standard Manpower Table.

Work Center	Air Force Specialty Title	AFSC	Manpower Requirement							
Survival Equipment	Survival Equipment	2A7X4	2							
Total			2							

Note. AFSCs may be adjusted at the discretion of the Commander.